Antidegradation Form 2G

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC)

Wastewater Discharge Authorization Program 555 Cordova Street, AK 99501 907-269-6285

Form 2G must be completed by all applicants. The applicant shall submit sufficient information for the department to complete an antidegradation analysis and make findings under 18 AAC 70.016 (b), (c), and (d). DEC may request additional information as necessary.

Antidegradation analysis is tier-specific and the department findings for Tier 1 and Tier 2 are on a parameter-by-parameter basis. Analysis and department findings for Tier 3 water are on a basis of a designated water.

The antidegradation review procedure is based on:

- The level of protection (i.e. Tier 1, 2, or 3) assigned to the pollutants of concern within the receiving water,
- The type of receiving water,
- Existing water quality of the receiving water,
- · The necessity of degradation, and
- The social and economic importance of the regulated activity.

All discharges that require a permit under 18 AAC 83 Alaska Pollutant Discharge Elimination System (APDES) or an application for state certification of a federal permit under Section 401 of the Clean Water Act (CWA) are subject to antidegradation regulatory requirements under 18 AAC 70.016. [18 AAC 70.016(a)(1)(A & B)]

Submit completed form to DEC Division of Water to the address above, or via email to either of the following email addresses depending on the type of permit:

401 Certification for 404 CWA, or other federal permits: <u>DEC-401Cert@alaska.gov</u>

for the receiving water which meets the requirements of 18 AAC 70.016(a)(6)(A-C).

- APDES Permits: DEC.Water.WQPermit@alaska.gov
- Or, via other means as coordinated with DEC Division of Water.

OI, via otilei means as coordinated with	DEC DIVISION OF Water.			
Section 1- Facility Information [18 AAC 70]	016(a)(5)(A – G)			
Facility Name: Wally Noerenberg Hatchery		Permit Number:		
 Provide a list of Parameters of Concern i impacts to the receiving water. Identify which Tier protection level should 			istence, and pote	ential
(For multiple paran	neters or if additional space is needed,	attach separate sheet)	
Receiving Waterbody or Wetland:				
Lake Bay (Marine Waters)				
Parameter of Concern:	Respective Concentr	Tier* Protection Level: (*Note, complete this entry after completing the rest of the form)		
Bacteria, BOD, TSS	200 col/100 mL	2		
Persistence:		_		
Long term discharge of bacteria, BOI	D, TSS			
Potential Impacts:				
Long term impacts include possible e around the immediate area of the ma				aters
If applicable, data is attached on the parameters to the receiving water.	that may alter the effects of the disch	arge 🗌 Yes,	□ No,	☑ N/A
Section 2- Baseline Water Quality Provision	ons [<u>18 AAC 70.016(a)(6)(A – C)</u>]			
If determined necessary and requested by th	e Department, submit sufficient a	nd credible baselin	e water quality ir	nformation

(Form 2G, January 2020) Page 1 of 4

Se	ction 3- Tier 1 Protection Level a	and Ana	ılysis [<u>1</u>	8 AAC 70.016(b)]				
1.	waterbody listed in the current ap	pproved	Alaska's	Section 1 occur to a Category 4 [305(b) is Integrated Water Quality Monitoring a <u>Mimpaired-waters.aspx</u> for the most red	nd Asses	ssment	Report?	d report
	☐ Yes							
	•		that are	e present in the proposed discharge tha	it will be	ncluded	d in the T	ier 1
R	eceiving Water and Wetlands In	formati	on (if add	litional space is needed, attach separate sheet):				
a.	Name of waterbodies or wetlands to		(Impaired Waters				
which you discharge:		b. Is the proposed discharge(s) directly to any segment of a Category 4 or 5 waterbody?		If you answered yes to b, then answer the f c. What parameter(s) are causing the Category 4 or 5 water degradation?	d. Are the parameter(s) causing the degradation present in the proposed discharge?		e. Is the discharge consistent with the assumptions and requirements of applicable EPA approved or established Total Maximum Daily Load (TMDL)?	
		Yes	No		Yes	No	Yes	No
La	ake Bay		\square					
1.	permitted parameter load or concentration or other	ges means dis er changes in e ter ident	discharge ch	Existing Discharge are regulated for the first time or discharges that are expande aracteristics that could lower water quality or have other adve Section 1 — Facility Information require	d such that the	ey could res ental impac	ts.	ase in
3.	and analysis of a range of practic with the proposed discharge [18	AAC 70	ernative .016(c)(provide a description per discharge (e.g s that have the potential to prevent or le 4)] (<i>if additional space is needed, attace</i> ccompanying environmental impacts or	essen the	degrad te sheet	dation as: (). Include	sociated e:
	the practicable alternatives;	tor quan	.,	ocompanying on mornional impacts of		5. vg	410. 101 0	
	here were only 2 practical al nvironmental impacts on the			it potentially increase water quali ters:	ty and ı	educe	d	
s	urface water discharge thus	mainta	ining th	ter discharge - This alternative w ne water quality of the "receiving ue to inadequate soils at the site	" waters			•
	,			ection - This alternative would have		isted c	of install	ing a

(Form 2G, January 2020) Page 2 of 4

B. Evaluation of the cost for each of the practicable altern	atives, relative to the degree of water quality degradation;
1) The estimated cost of this alternative is approximated. This alternative was not feasible due to soil contains the proposed due to the site work and importate "receiving" waters would not have been impacted.	onditions. The cost would have been much greater
2) The estimated cost of this alternative is approximated factor. UV disinfection has been proven to be an effection disinfection is a more traditional way that is also effection possibility of residual chlorine escapement which we additional environmental impacts.	ective method for killing bacteria. Chlorine ective. This method was not chosen due to the
C. Identification of a proposed practicable alternative that considering accompanying cross-media environmental the social or economic importance analysis in Question 4 is r	impacts. (If the applicant has selected a non-degrading alternative,
Considering the 2 alternatives listed above, we cannuater quality degradation. The design proposes met contaminants including UV disinfection, trickling filter	thods and means for reduction of all the proposed
4. Social or Economic Importance [18 AAC 70.016(c)(5)] Provide information that demonstrates the accommodation of i complete either a social OR economic importance analysis (or the receiving water for the proposed discharge is located. (if add (A) Social Importance Analysis:	both) identifying each affected community in the area where ditional space is needed, attach separate sheet) (B) Economic Importance Analysis:
(select one or more areas, and describe below) community services provided;	(select one or more areas, and describe below): ✓ employment, job availability, and salary impacts;
☐ public health or safety improvements;	tax base impacts;
☐ infrastructure improvements;	expanded leases and royalties;
☐ education and training;☐ cultural amenities;	✓ commercial activities; ✓ access to resources;
☐ recreational opportunities	☐ access to a transportation network
Describe (checked items above or attach as separate document)	
This discharge will be produced by a new domestic operations. This hatchery contributes significantly to essential for sustaining the commercial fishing fleet an immeasurable economic resource for Alaska. A staff. If the discharge proposed were not allowed to operations. Thus, the economic impact would be determined by the control of	ts, local subsistence, and tourism. Salmon provide dditionally, the hatchery employs 25 to 30 onsite o occur, the hatchery would not be able to resume
Section 5- Tier 3 Protection Level and Analysis [18 AAC 70.	
Laection a. Tier a Projection Level and Analysis TIX AAC. ///	016(d)]
_	<u>`</u> ^-
1. Is the discharge to a designated Tier 3 water? Yes (Currently, the State of Alaska has See http://dec.alaska.gov/water/water-quality/standards	✓ No not designated any Tier 3 waters).

(Form 2G, January 2020) Page 3 of 4

Section 6. Certification Information								
An Alaska Pollutant Discharge Elimi								
authority per 18 AAC 83.385 or for 4 APDES Permits	01 cerun	cation of 404 permits or our	ier federai permits	per 18 AAC	<u>15.030</u> .			
Corporate Executive Officer 18 AAC 83.385 (a)(1)(A)	princ	For a corporation, a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for						
Corporate Operations Manager 18 AAC 83.385 (a)(1)(B)	For a (i) th fa al	the corporation. For a corporation, the manager of one or more manufacturing, production, or operating facilities, if (i) the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations:						
	(iii) ai	 (ii) the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and (iii) authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. 						
Sole Proprietor or General Partner 18 AAC 83.385 (a)(2)		a partnership or sole proprietors			•			
Public Agency, Chief Executive Officer 18 AAC 83.385 (a)(3)(A)			public agency, the chief executive officer of the agency.					
Public Agency, Senior Executive Office 18 AAC 83.385 (a)(3)(B)		a municipality, state, or other pu all operations of a principal geo			icer having responsibility for the cy.			
401 Certifications								
Corporations <u>18 AAC 15.030(1)</u>		principal executive officer of at least the level of vice president or his duly expresentative is responsible for the overall management of the project or						
Partnerships 18 AAC 15.030(2)	in the	e case of a partnership, by a ge	eneral partner					
Proprietorship 18 AAC 15.030(3)	in the	e case of a sole proprietorship,	by the proprietor					
Public Agency 18 AAC 15.030(4)		e case of a municipal, state, fed ted official, or other duly authori		acility, by eithe	er a principal executive officer, ranking			
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.								
Organization:		Name:	Title:					
Prince William Sound Aquaculture C		Geoff Clark		General Ma	nager			
Phone:	Fax (opt							
907-632-4368			geoff.clark@pwsac.com					
Mailing Address: Street (PO Box): 500 First Street								
City:			State: Zip:					
Cordova			Alaska		99574			
Cordova			Maska		99314			
h 11 CO1								
THE WILL			08/27/21					
Signature/Responsible Official			Date					
Castian 7 Form 2G Propagor //	Camplete	if Farm CO was propored	tura and other (the series	16 \			
Section 7. Form 2G Preparer (Complete if Form 2G was prepared by someone other than the certifier.) Organization: Title:								
R&M Engineering-Ketchikan Joe		Joel Teune		Design Engineer				
Phone: Fax (op		tional): Email:						
907-225-7917 Mailing Address: Street (PO Bo.		jteune@rmketchikan.com						
Mailing Address: Street (PO Box): Check if same as 7180 Revilla Road Suite 300								
Certifiers Information City:	- Toad Sui		State:		Zip:			
Ketchikan								

(Form 2G, January 2020) Page 4 of 4